



PATENT
Atty. Dkt. APPM/6766/CPI/L/B/PJS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Chen, et al.

Serial No.: 10/712,690

Confirmation No.: Unknown

Filed: November 13, 2003

For: Apparatus and Method for
Hybrid Chemical
Processing

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§ Group Art Unit: Unknown

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§
§ Examiner: Unknown

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING 37 CFR 1.8	
I hereby certify that this correspondence is being deposited on <u>12/12</u> , 2003 with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.	
Date <u>12/12/2003</u>	Signature <u>Robert Edwards</u>

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

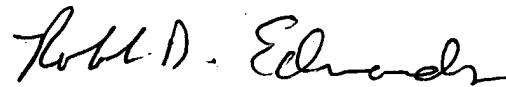
While the information submitted in this Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

The Applicants do not feel that a fee is necessary at this time, but if the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/APPM/6766/BTP.

Respectfully submitted,

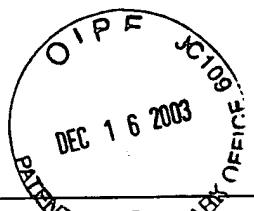


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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. APPM/6766		Serial No. 10/712,690
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Applicant Chen, et al.		Confirmation No.
(Use several sheets if necessary)					Filing Date November 13, 2003		Group
	Examiner	Unknown					
U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
A1		6,551,406	04/22/2003	KILPI	118	728	12/27/2000
A2		6,511,539	01/28/2003	RAAIJMAKERS	117	102	09/08/1999
A3		6,482,733	11/19/2002	RAAIJMAKERS, ET AL	438	633	04/26/2001
A4		6,482,262	11/19/2002	ELERS, ET AL.	117	84	10/13/2000
A5		6,481,945	11/19/2002	HASPER, ET AL.	414	217	06/04/1999
A6		6,478,872	11/12/2002	CHAE, ET AL.	117	88	12/20/1999
A7		6,475,910	11/05/2002	SNEH	438	685	09/22/2000
A8		6,475,276	11/05/2002	ELERS, ET AL.	117	84	10/13/2000
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A10		6,451,695	09/17/2002	SNEH	438	685	12/22/2000
A11		6,451,119	09/17/2002	SNEH, ET AL.	118	715	11/29/2000
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A13		6,416,577	07/09/2002	SUNTOLOA, ET AL.	117	88	12/09/1998
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A15		6,391,785	05/21/2002	SATTA, ET AL.	438	704	08/23/2000
A16		6,379,748	04/30/2002	BHANDARI, ET AL.	427	255.394	01/17/2000
A17		6,372,598	04/16/2002	KANG, ET AL.	438	399	06/16/1999
A18		6,358,829	03/19/2002	YOON, ET AL.	438	597	09/16/1999
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A24		6,284,646	09/04/2001	LEEM	438	629	08/19/1998
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A27		6,207,487	03/27/2001	KIM, ET AL.	438	238	10/12/1999
Examiner					Date Considered		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.							



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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)		Docket No. APPM/6766	Serial No. 10/712,690
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	Examiner Unknown	November 13, 2003	

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A1	6,203,613	03/20/2001	GATES, ET AL	117	104	10/19/1999
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	A9	6,124,158	09/26/2000	DAUTARTAS, ET AL.	438	216	06/08/1999
	A10	6,084,302	07/04/2000	SANDHU	257	751	12/26/1995
	A11	6,042,652	03/28/2000	HYUN, ET AL.	118	719	09/07/1999
	A12	6,015,917	01/18/2000	BHANDARI, ET AL.	556	12	01/23/1998
	A13	6,015,590	01/18/2000	SUNTOLA, ET AL.	427	255.23	11/28/1995
	A14	5,923,056	07/13/1999	LEE, ET AL.	257	192	03/12/1998
	A15	5,916,365	06/29/1999	SHERMAN	117	92	08/16/1996
	A16	5,879,459	03/09/1999	GADGLI, ET AL.	118	715	08/29/1997
	A17	5,855,680	01/05/1999	SOININEN, ET AL.	118	719	11/28/1995
	A18	5,835,677	11/10/1998	LI, ET AL.	392	401	10/03/1996
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	A20	5,796,116	08/18/1998	NAKATA, ET AL.	257	66	08/18/1998
	A21	5,711,811	01/27/1998	SUNTOLA, ET AL.	118	711	11/28/1995
	A22	5,674,786	10/07/1997	TURNER, ET AL.	437	225	06/05/1995
	A23	5,503,875	04/02/1996	IMAI, ET AL.	427	255.3	03/17/1994
	A24	5,483,919	01/16/1996	YOKOYAMA, ET AL	117	89	08/17/1994
	A25	5,480,818	01/02/1996	MATSUMOTO, ET AL.	437	40	02/09/1993
	A26	5,443,647	08/22/1995	AUCOIN, ET AL.	118	723 ME	07/11/1994

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U.S. Patent Documents							
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A1		5,441,703	08/15/1995	JURGENSEN	422	129	03/29/1994
A2		5,374,570	12/20/1994	NASU, ET AL.	437	40	08/19/1993
A3		5,294,286	03/15/1994	NISHIZAWA, ET AL.	156	610	01/12/1993
A4		5,281,274	01/25/1994	YODER	118	697	02/04/1993
A5		5,225,366	07/06/1993	YODER	437	108	06/22/1990
A6		4,993,357	02/19/1991	SCHOLZ	118	715	12/21/1989
A7		4,834,831	05/30/1989	NISHIZAWA, ET AL	156	611	09/04/1987
A8		4,413,022	11/1/1983	SUNTOLA, ET AL.	427	255.2	06/21/1979
A9		4,389,973	06/28/1983	SUNTOLA, ET AL.	118	725	12/11/1981
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A11		20030082296	05/01/2003	ELERS, ET AL.	427	96	09/12/2002
A12		20030075925	04/24/2003	LINDFORS, ET AL.	285	367	06/28/2002
A13		20030075273	04/24/2003	KILPELA, ET AL.	156	345.33	08/14/2002
A14		20030072975	04/17/2003	SHERO, ET AL.	428	704	09/26/2002
A15		20030049942	03/13/2003	HAUKKA, ET AL.	438	778	08/22/2002
A16		20030042630	03/06/2003	BABCOKE, ET AL.	261	121.1	09/05/2001
A17		20030031807	02/13/2003	ELERS, ET AL.	427	569	09/17/2002
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A20		20020197402	12/26/2002	CHIANG, ET AL.	427	255.39	08/05/2002
A21		20020187256	12/12/2002	ELERS, ET AL.	427	99	07/30/2002
A22		20020182320	12/05/2002	LESKELA, ET AL.	427	250	03/15/2002
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A25		20020164421	11/07/2002	CHIANG, ET AL.	427	248.1	05/03/2002
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A27		20020155722	10/24/2002	SATTA, ET AL.	438	704	04/15/2002
Examiner					Date Considered		
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	A1	20020146511	10/10/2002	CHIANG, ET AL.	427	248.1	10/24/2001
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	A3	20020144655	10/10/2002	CHIANG, ET AL.	118	715	10/24/2001
	A4	20020134307	09/26/2002	CHOI	118	715	11/30/2000
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	A6	20020106536	08/08/2002	LEE, ET AL.	428	702	02/02/2001
	A7	20020104481	08/08/2002	CHIANG, ET AL.	118	723 I	03/19/2001
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	A14	20020076507	06/20/2002	CHIANG, ET AL.	427	569	10/24/2001
	A15	20020076481	06/20/2002	CHIANG, ET AL.	427	8	10/24/2001
	A16	20020073924	06/20/2002	CHIANG, ET AL.	118	723 R	10/24/2001
	A17	20020068458	06/06/2002	CHIANG, ET AL.	438	694	11/26/2001
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	A19	20020052097	05/02/2002	PARK	438	507	05/03/2001
	A20	20020048635	04/25/2002	KIM, ET AL.	427	331	10/08/1999
	A21	20020041931	04/11/2002	SUNTOLA, ET AL.	427	255.28	05/14/2001
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	A23	20020021544	02/21/2002	CHO, ET AL.	361	200	08/07/2001
	A24	20020020869	02/21/2002	PARK, ET AL.	257	306	12/20/2000
	A25	20020007790	01/24/2002	PARK	118	715	05/03/2001
	A26	20020000598	01/03/2002	KANG, ET AL.	257	301	07/26/2001
	A27	20020000196	01/03/2002	PARK	118	715	05/03/2001

Examiner

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	Examiner Unknown		

U.S. Patent Documents

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	A1	20010054769	12/27/2001	RAAIJMAKERS, ET AL	257	758	04/26/2001
	A2	20010054730	12/27/2001	KIM, ET AL.	257	301	05/23/2001
	A3	20010054377	12/27/2001	LINDFORS, ET AL.	117	104	04/16/2001
	A4	20010042799	11/22/2001	KIM, ET AL.	239	553	02/02/2001
	A5	20010042523	11/22/2001	KESALA	122	6.6	05/14/2001
	A6	20010041250	11/15/2001	WERKHOVEN, ET AL.	428	212	03/06/2001
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	A9	20010025979	10/04/2001	KIM, ET AL.	257	315	12/04/2000
	A10	20010024387	09/27/2001	RAAIJMAKERS, ET AL	365	200	02/22/2001
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	A13	20010011526	08/09/2001	DOERING, ET AL.	118	729	01/16/2001
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Foreign Patent Documents

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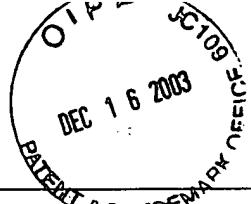
Foreign Patent Documents

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	B21	5270997 (Abstract Only)	10/19/1993	JP	C30B	29/68	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B22	5234899 (Abstract Only)	09/10/1993	JP	H01L	21/205	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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	Examiner Unknown				

Foreign Patent Documents

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	B3	4291916 (Abstract Only)	09/23/1992	JP	C30B	25/10B	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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OTHER ART

*Examiner Initial	Including Author, Title, Date, Pertinent Pages, Etc.		
	C1 Kukli, et al., "Tailoring the Dielectric Properties of HfO ₂ -Ta ₂ -O ₅ Nanolaminates," Applied Physics Letters, Vol. 68, No. 26, June 24, 1996; p. 3737-9		
	C2 Kukli, et al. "Atomic Layer Epitaxy Growth of Tantalum Oxide Thin Films from Ta(OC ₂ H ₅) ₅ and H ₂ O," Journal of the Electrochemical Society, Vol. 142, No. 5, May 1995; p. 1670-5		
	C3 Kukli, et al., "In situ Study of Atomic Layer Epitaxy Growth of Tantalum Oxide Thin Films From Ta(OC ₂ H ₅) ₅ and H ₂ O," Applied Surface Science, Vol. 112, March 1997, p. 236-42		
	C4 Kukli, et al., "Properties of Ta ₂ O ₅ -Based Dielectric Nanolaminates Deposited by Atomic Layer Epitaxy," Journal of the Electrochemical Society, Vol. 144, No. 1, Jan. 1997; p. 300-6		
	C5 Kukli, et al., "Properties of {Nb _{1-x} Ta _x } ₂ O ₅ Solid Solutions and {Nb _{1-x} Ta _x } ₂ O ₅ -ZrO ₂ Nanolaminates Grown by Atomic Layer Epitaxy," 1997; p. 785-93		
	C6 Ritala, M., et al., "Chemical Vapor Deposition," January 1999, p. 6-9		
	C7 Rossnagel, et al. "Plasma-enhanced Atomic Layer Deposition of Ta and Ti for Interconnect Diffusion Barriers," J. Vac. Sci. Technol. B., Vol. 18, No. 4 (July 2000); p2016-20		
	C8 Niinisto, et al. "Synthesis of Oxide Thin Films and Overlays by Atomic Layer Epitaxy for Advanced Applications," Materials Science and Engineering B41 (1996) 23-29		
	C9 Eisenbraum, et al. "Atomic Layer Deposition (ALD) of Tantalum-based materials for zero thickness copper barrier applications," Proceedings of the IEEE 2001 International Interconnect Technology Conference (Cat. No. 01EX461) 2001		
	C10 Clark-Phelps, et al. "Engineered Tantalum Aluminate and Hafnium Aluminate ALD Films for Ultrathin Dielectric Films with Improved Electrical and Thermal Properties," Mat. Res. Soc. Symp. Proc. Vol. 670 (2001)		

Examiner

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.